IN THE CLAIMS

Please amend the claims as follows:

(Original) A multi-mode wireless device on a single substrate, comprising:
 an analog portion integrated on the substrate, including:

a cellular radio core;

a radio sniffer coupled to the cellular core; and

a short-range wireless transceiver core coupled to the cellular core;

and

a digital portion integrated on the substrate, including:

a reconfigurable processor core coupled to the cellular radio core
and the short-range wireless transceiver core, the reconfigurable processor
adapted to handle a plurality of wireless communication protocols; and
a high-density memory array core coupled to the reconfigurable
multi-processor core.

- (Currently Amended) The wireless device on a single substrate of claim 1, wherein at least one of the wirelesss communication protocols conforms to a Bluetooth[™] or IEEE802.11 protocol.
- (Original) The wireless device on a single substrate of claim 1, wherein the protocol software conforms to a Global System for Mobile Communications (GSM) protocol.



- 4. (Original) The wireless device on a single substrate of claim 1, wherein the protocol software conforms to a General Packet Radio Service (GPRS) protocol.
- (Original) The wireless device on a single silicon substrate of claim 1, wherein the protocol software conforms to an Enhance Data Rates for GSM Evolution (Edge) protocol.
- (Original) The wireless device on a single substrate of claim 1, wherein the reconfigurable processor core includes one or more digital signal processors (DSPs).
- 7. (Original) The wireless device on a single substrate of claim 1, wherein the reconfigurable processor core includes one or more reduced instruction set computer (RISC) processors.
- (Original) The wireless device on a single substrate of claim 1, further comprising a
 router coupled to the processor, the cellular radio core, and the short-range wireless
 transceiver core.
- 9. (Original) The wireless device on a single substrate of claim 8, wherein the router further comprises an engine that tracks the destinations of packets and send them in parallel through a plurality of separate pathways.
- 10. (Original) The wireless device on a single substrate of claim 8, wherein the router sends packets in parallel through a primary and a secondary communication channel.



(Currently Amended) A portable computer system, comprising:
 a processor;

an input recognizer embodied in said-program storage device, said-input recognizer adapted to receive input from said user;

a multi-mode wireless device on a single substrate coupled to the processor, the device comprising:

an analog portion integrated on the substrate, including:

a cellular radio core; and

a short-range wireless transceiver core; and

a digital portion integrated on the substrate, including:

a reconfigurable processor core coupled to the cellular radio core and the short-range wireless transceiver core, the reconfigurable processor adapted to handle a plurality of wireless communication protocols; and

a high-density memory array core coupled to the reconfigurable multi-processor core;

a program storage device coupled to said processor;

an input recognizer embodied in said program storage device, said input recognizer adapted to receive input from said user; and

a computer readable code embodied in said program storage device and coupled to said input recognizer for receiving said user input.

- 12. (Currently Amended) The portable computer system of claim 11, wherein one of the <u>wirelesss communication</u> protocols conforms to a Bluetooth™ protocol.
- 13. (Original) The portable computer system of claim 11, wherein the protocol software conforms to a Global System for Mobile Communications (GSM) protocol.
- 14. (Original) The portable computer system of claim 11, wherein the protocol software conforms to a General Packet Radio Service (GPRS) protocol.
- 15. (Original) The portable computer system of claim 11, wherein the protocol software conforms to an Enhance Data Rates for GSM Evolution (Edge) protocol.
- 16. (Original) The portable computer system of claim 11, wherein the reconfigurable processor core includes one or more digital signal processors (DSPs).
- 17. (Original) The portable computer system of claim 11, wherein the reconfigurable processor core includes one or more reduced instruction set computer (RISC) processors.
- 18. (Original) The portable computer system of claim 11, further comprising a router coupled to the processor, the cellular radio core, and the short-range wireless transceiver core.



- 19. (Original) The portable computer system of claim 18, wherein the router further comprises an engine that tracks the destinations of packets and send them in parallel through a plurality of separate pathways.
- 20. (Original) The portable computer system of claim 18, wherein the router sends packets in parallel through a primary and a secondary communication channel.